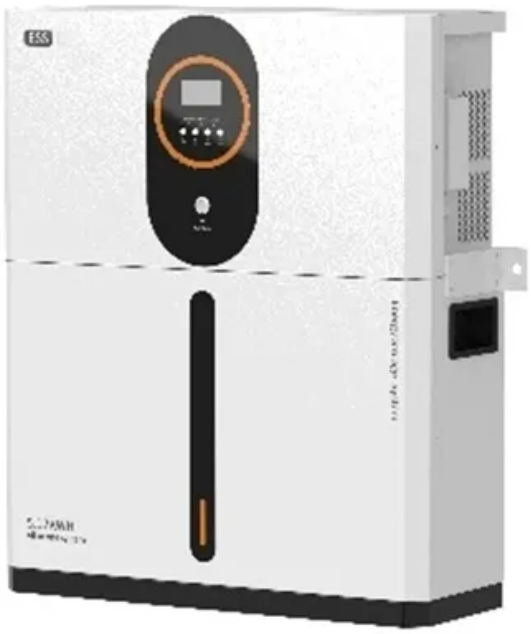
SolarInnovate Energy Solutions

Ankara Communication BESS Power Station Project



Overview

Do mobile Bess applications have communication interfaces?

This thesis project, carried out at Northvolt Systems, aims to analyze the existing and readily used communication interfaces for a specific set of mobile BESS applications. The analysis is performed by a literature review of typical mobile BESS applications with the identified corresponding communication interfaces.

How much power does a Bess have?

The system is built of two main blocks. The PCS building block, responsible for the main control of the mobile BESS. The nominal power rating of the PCS block is 225 kVA, with a maximum peak power in the peak shaving mode of 275 kW . The second block is the modular battery pack.

Why should you choose a Bess energy storage system?

The mobility and flexibility of the system enables novel applications and deployments where BESS previously were unused due to the non-flexible solutions. The system is modular, meaning that the energy storage capacity can be quickly adapted depending on the application case, in contrast to larger and bulkier solutions.

How a Bess coordination scheme can be used for interoperable mobile System der?

Accommodating novel and state-of-the-art BESS coordination and protection capabilities. Furthermore, such a coordination scheme could be utilized to efectively connect multiple VMS and other mobile BESS in an efective manner, for an interoperable coordinated mobile system DER.

What are the environmental conditions of a mobile Bess system?

Due to the flexible and mobile nature of mobile BESS, the environmental conditions can difer greatly for each system depending on the respective

mobile deployments. Ranging from high temperatures and high humidity to the inverse during the same season, monitoring and control of the TMS is critical.

Is a Bess a load or generator?

Since the BESS is, as seen from the power system, able to act as both a load or generator, i.e. consume or inject active and reactive power individually, these capabilities are described respectively in the LNs DLOD and DGEN.

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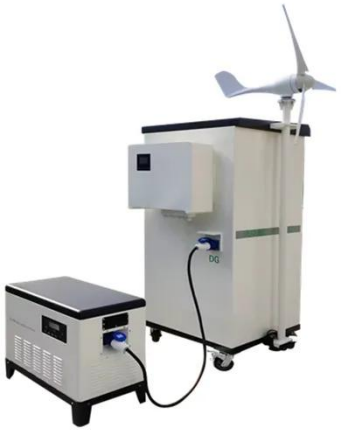

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